# BUFFALO AirStation G54

## MIMO Performance Wireless Cable/DSL Smart Router – WHR-HP-G54

up to 70% further!
up to 50% faster!
than a standard 802.11g Router

The Buffalo AirStation G54 MIMO Performance Wireless Cable/DSL Smart Router combines the High Power wireless performance with Buffalo's AirStation One-Touch Secure System™ (AOSS™). Uniquely equipped with a built-in signal amplifier, the WHR-HP-G54 produces a true 60% increase in wireless transmit power over a standard 802.11g wireless router. WHR-HP-G54 extends the range of standard 802.11g client devices by up to 70% and improves overall performance by up to 50%. This Smart Router automatically detects and configures your Cable or DSL internet connection. Security features include WPA, WEP, Privacy Separator, Intrusion Detector, and SPI firewall. In addition to fast wireless performance, WHR-HP-G54 features a built-in external switch between wireless router and wireless bridge access point modes. The combination of speed, security, and push-button setup of wireless connections and internet, makes the Buffalo AirStation G54 High Power Wireless Cable/DSL Smart Router the perfect choice for your wireless network.

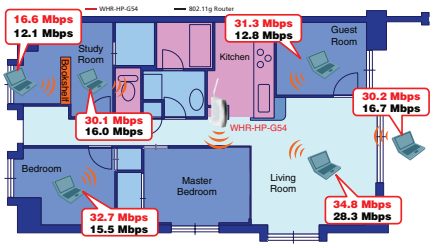
AirStation G54
WHR-HP-G54

- Built-in Amplifier Improves Wireless Performance and Extends Range
- 802.11g Wireless 125* High- Speed Mode™ Transfer Rates When Used with 125* High-Speed Mode™ Adapter
- Simple Web Browser Configuration
- Supports WDS To Increase Coverage With Optional Repeater
- External Switch To Instantly Change Between Wireless Router and Wireless Access Point
- Easy Setup with AirStation One-Touch Secure System™ (AOSS™)
- Automatic Channel Support Selects Best Available Wireless Networking Channel
- Supports WPA-PSK (TKIP, AES) and 128/64-bit WEP Security
- Includes NAT and SPI Firewall and Intrusion Detector
- Dynamic Packet Filtering
- Built-in DHCP Server
- Built-in 10/100 4-Port Auto-Sensing Switch
- Optimised High-Speed Routing, up to 5 Times Faster than Standard Routers

AOSS™ AirStation One-Touch Secure System

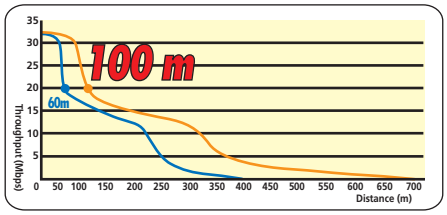
## Work and Play - Further and Faster!

**Wireless Speed Comparison Chart**
*(WHR-HP-G54 vs. Standard 802.11g Router)*




[Testing Environment: 4 bedroom apartment in Japan: Measured using Windows to transfer MPEG data (about 98 MB) to FTP server; Server: HD-HG120LAN LinkStation; Client: A laptop with a Pentium® M 1.6GHz processor, 512 MB RAM, and WLI-CB-G54S Wireless 802.11g client card; All room doors were closed. All measurements are subject to variation in different environments due to different signal conditions.]

**Wireless Signal Distance and Speed Comparison Chart**
*(High Power Router vs. Standard 802.11g Router)*




WPA TKIP AES SECURITY

125 HIGH SPEED MODE™

Cable / DSL ROUTER

## 2 Products in 1!

External Switch Quickly and Easily Changes Between Wireless Router and Wireless Bridge Access Point

Router Mode

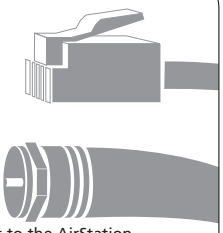
*Shares a Cable or DSL connection with multiple wired and wireless devices.*

Bridge Access Point Mode

*Quickly adds wireless access to your existing local area network.*

## Smart Router

Automatically Sets Up Cable or DSL Connection.



Automatic Router Configuration makes installing your wireless router easier than ever. Plug your cable or DSL modem into the AirStation, then plug your computer into the AirStation or connect to the AirStation wirelessly and open your web browser.*

*Users with DSL PPPoE connections will have to enter PPPoE information on a wizard screen that automatically appears upon opening your browser.

BUFFALO™

www.buffalo-technology.com

# Technical Specifications
## MIMO Performance Wireless Cable/DSL Smart Router - WHR-HP-G54

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up to 50% faster!

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## Wireless LAN Interface

| | |
|---|---|
| Standard Compliance | IEEE802.11b/IEEE802.11g |
| Communication Protocol | Direct Sequence Spread Spectrum (DSSS), OFDM |
| Frequency Range | 2,412 - 2,462 MHz (1-11 channel) |
| Transmission Rate | 802.11g 125* High-Speed Mode: 13, 20, 27, 40, 54, 80, 110, 125 Mbps<br>802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br>802.11b: 1, 2, 5.5, 11 Mbps |
| Access Mode | Infrastructure mode, WDS |
| Security | WPA-PSK(AES, TKIP), 128/64-bit WEP,<br>Wireless Power Output Setting,<br>MAC Address Registration |

## Wired LAN Interface

| | |
|---|---|
| Standards Compliance | IEEE802.3u(100 Base-TX)<br>IEEE802.3(10 Base-T) |
| Transmission Rate | 10/100 Mbps |
| Transmission Encoding | 100 BASE-TX 4B5B/MLT-3 |
| Method | 10 Base-T Manchester Coding |
| Access Method | CSMA/CD |
| LAN Port | 10/100 Mbps, Auto Sensing, Auto MDIX |
| Number of LAN Ports | 4 |
| WAN Port | 10/100 Mbps, Auto Sensing, Auto MDIX<br>High-Speed Routing to Support FTTH |
| Number of WAN Ports | 1 |
| WAN/LAN Port Connector | RJ-45 |
| Security | Dynamic Packet Filtering, Intrusion Detector,<br>NAT/SPI Firewall |

## Other

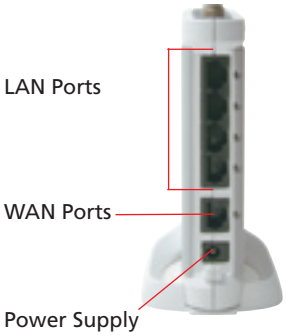
| | |
|---|---|
| Power Supply | 100-240V AC Universal, 50/60 Hz |
| Power Consumption | About 3.4 W (Max) |
| Dimensions | 1.1 x 5.1 x 5.7 in. (28 x 130 x 144 mm) |
| Weight | 9.5 oz. (270 g) |
| Operating Environment | 0-40°C, 10-85% (non-condensing) |

## Related Products

Repeaters: WLA2-G54C, WLA2-G54L

Client Adapters: WLI-CB-G54S*, WLI-CB-G54HP*, WLI2-PCI-G54S*, WLI2-CB-G54L, WLI-U2-KG54-AI, WLI3-TX1-G54, WLI2-USB2-G54

*Recommended for Maximum Performance with 125* High-Speed Mode™

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Buffalo Technology (UK), Ltd. is a leading global provider of affordable, easy-to-use, next-generation wired and wireless network solutions for the consumer, SOHO and SMB markets. Buffalo offers home users a full suite of wireless home networking solutions such as its award-winning line of AirStation 54g products; its 125* High-Speed Mode™ 802.11g products; and its versatile line of 802.11b/g combo products. Buffalo completes its offerings with additional world-class networking solutions that include memory, storage and multimedia products – perfectly suited for any wireless environment.

BUFFALO

176, Buckingham Avenue,
Slough, Berkshire, SL1 4RD.
01753 555000

www.buffalo-technology.com

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